



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE IN
ANIMAL SCIENCE
2019/2020 ACADEMIC YEAR RESIT

COURSE CODE: AAS 3214

COURSE TITLE: Animal Growth and Development

EXAM VENUE: **STREAM: (BSc. Animal Science)**

DATE: **EXAM SESSION:**

TIME: 2HOURS

Instructions

- 1. Answer ALL questions in Section A (compulsory) and ANY TWO questions in Section B**
- 2. Candidates are advised not to write on the question paper**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**

SECTION A [30 MARKS]

Answer ALL questions from this Section.

1. a) Define;
- | | | | |
|--|-------------|--------------|-----------|
| | I. | Growth. | (2 Marks) |
| | II. | Adipocytes | (2 Marks) |
| | III. | Chondrocytes | (2 Marks) |
- b) Differentiate Dam from Sire. (2 Marks)
- c) Outline homeostasis. (2 Marks)
2. a) Explain the three ways growth can occur. (6 Marks)
- b) Highlight how castration affects growth and development. (4 Marks)
3. a) Compare and contrast differences in true growth and fattening (4 Marks)
- b) List four hormones which affect growth and development. (2 Marks)
- c) Briefly outline environmental factors that influence phenotype of an animal. (4 Marks)

SECTION B [40 MARKS]

Answer ANY TWO questions from this Section.

4. a) Factors affecting adipose tissue growth, development and metabolism. (10 Marks)
- b) With examples discuss abnormal growths (10 Marks)
5. a) Nutritional regulation of prenatal growth. (10 Marks)
- b) There are potential benefits in using compensatory growth. Discuss how compensatory growth can be used in beef production. (10 Marks)
6. Discuss factors affecting growth and development. (20 Marks)